Arinjoy Basak

Contact Information	Mobile num Email addr Address of		+1 540 838 1704 arinjoyb@vt.edu, basakarinjoy@gmail.com 1309 University City Boulevard, Apt #3 Blacksburg, Virginia - 24060, USA		
Research Interests	Data Mining, Big Data Analytics, Machine Learning, Natural Language Processing, Artificial Intelligence				
Education	Currently a PhD student in the Department of Computer Science, Vir Polytechnic Institute and State University, Blacksburg, Virginia				
	 Expected to graduate in 2021 Currently working on Software Analytics with Dr. Francisco Servant 				
	Completed Bachelor of Engineering in Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, West Ben- gal, India				
	 Passed in 2016, obtaining First Class with Honours. Final CGPA: 9.45 				
	Completed Schooling from St. Xavier's Collegiate School, Kolkata, West Bengal, India				
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ACADEMIC		amination/Semester 8th Semester			
QUALIFICATIONS	2016		SGPA: 9.88, CGPA: 9.45		
AND SCORES	2016	7th Semester	SGPA: 9.75, CGPA: 9.39		
	2015	6th Semester	SGPA: 9.79, CGPA: 9.34		
	2014	5th Semester	SGPA: 9.23, CGPA: 9.24		
	2014	4th Semester	SGPA: 9.08, CGPA: 9.24		
	2013	3rd Semester	SGPA: 9.16, CGPA: 9.29		
	2013	2nd Semester	SGPA: 9.68, CGPA: 9.35		
	2012	1st Semester	SGPA: 8.96, CGPA: 8.96		
	2012	ISC	Best of 4 subjects: 97.5%, Overall: 96.16%		
	2010	ICSE	Best of 5 subjects: 94.2%, Overall: 92%		
Relevant Skills	High Level Languages: C, C++, Java, Python, SchemeLISP, Prolog, Verilog HDL, VHDL				
	Web Techno	ologies:	HTML, CSS, JavaScript, PHP, Django		
	Database F	rameworks:	MySQL, Oracle 10g		
	Version Control and Documentation: LAT_EX , Git				
		echnologies:	Apache Hadoop, Apache Hive, Apache Spark		
	Hardware E	Intel 8085, 8051, Atmega16 (Embedded C)			
	Machine Le	earning tools:	WEKA		
PUBLICATIONS	Arinjoy Basak, Asit Kr. Das, 'A Graph Based Feature Selection Algorithm Utiliz- ing Attribute Intercorrelation', accepted for presentation in the The 7th IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEEE- IEMCON 2016), and for publication in the IEEE Xplore Digital Library.				

	Arpan Sen, Shrestha Ghosh, Arinjoy Basak , Harsh Parshuram Puria, Sushmita Ruj, 'Achieving Data Survivability and Confidentiality in Unattended Wireless Sensor Net- works', accepted for presentation in The 29th IEEE International Conference on Ad- vanced Information Networking and Applications (AINA-2015) and for publication in IEEE CPS Conference Proceedings.			
Scientific Research Experience and Project Work	2016	 Final Year Project Work towards fulfilment of B.E. Degree Title: A Graph Based Feature Selection Algorithm Utilizing Attribute Intercorrelation Advisor: Dr. Asit Kr. Das (Assoc. Prof), Dept. of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur 		
	2015	 Summer internship (9th May to 5th July, 2015) Title: a) Data Analytics for IITBombayX (based on OpenEdx InSight) - Detection of difficulty regions in lecture videos for students. b) Blended MOOCs Specification and User Documentation Advisor: Ms. Sukla Nag (IT Project Manager) Principal Invesigator: Prof. Deepak B. Phatak Department of Computer Science and Engineering, Indian Institute of Technology, Bombay 		
	2014	 Summer internship (22nd May to 18th July, 2014) Title: Achieving Data Survivability and Confidentiality in Unattended Wireless Sensor Networks Advisor: Dr. Sushmita Ruj (Asstt. Prof) Principal Investigator: Bimal K. Roy, Director, ISI R. C Bose Centre for Cryptology and Security, Indian Statistical Institute, Kolkata 		
	2014	 4th Semester Project Work 4th Semester Project Work Title: a) Analysis of Twitter Data using the Quick Reduct Algorithm. b) Development of an algorithm for dynamic extraction of most relevant features from a dataset using graph based algorithms. Advisor: Dr. Asit Kr. Das (Assoc. Prof.), Dr. Saptarshi Ghosh (Asstt. Prof.), Dept. of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur 		
	2013	 3rd Semester Project Work Title: Study of Rough Set theory and implementation of the Quick Reduct Extraction Algorithm using Rough Set theory. Advisor: Dr. Asit Kr. Das (Assoc. Prof.), Dept. of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur 		
	2013	 Summer Project work Title: a) Simulation of Data Structures: Arrays, Linked Lists, Stacks, Queues and Basic Operations. b) Representation of Graphs using Adjacency Matrix and Adjacency List representation, and development of algorithms for checking graph connectivity, counting circuits, determining paths, obtaining spanning trees. Advisor: Dr. Asit Kr. Das (Assoc. Prof.), Dept. of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur 		

WORKSHOPS AND
 LECTURES
 LECTURES
 ATTENDED
 Lecture Series and Hands-on Workshop on "Practical Crypto and Security Tools", under Mr. Vijay Kumar, R. C. Bose Centre for Cryptology and Security, as part of the Summer Internship Program in Cryptology, Indian Statistical Institute, Kolkata, June 2014.

- Attended workshop on Augmented Reality, conducted by Technophilia Systems, in association with Robotics and Computer Applications Institute of USA, held at Indian Institute of Technology, Bombay, on 23rd March 2014, which covered the basics of Augmented Reality using Java and Processing, and utilized the NyARToolkit library, GSVideo plugin, overlaying of 2D and 3D surfaces, markers and MetaIO SDK.
- Attended workshop on the iTouch Robotic Arm, conducted by Technophilia Systems, in association with Robotics and Computer Applications Institute of USA. This workshop was an integral part of the Indo-US Robo League 2013, which is the qualifier for Robogames, USA World's Largest Robot Competition (Guinness Book of Records).

ACHIEVEMENTS AND • Selected among 90 students to participate in the Eklavya Summer Internship Pro-LEADERSHIP EXPERIENCES • Selected among 90 students to participate in the Eklavya Summer Internship Proogy, Indian Institute of Technology, Bombay, from 9th May to 5th July, 2015. This project was supported by the MHRD National Mission on Education through ICT undertaken by the institute, and all the R&D contributions made by the students were released in open source. Was also selected Coordinator for the IITBombayX MIS System Specification activity, during May, 2015, where I worked on Use-Case specifications.

- Qualified with team as 1st Runner up in the Zonal Round, and participated in the National Round of the Indo-US Robo League 2014, in the Robotic Arm event, held on 22nd March, 2014, at IIT Bombay, during Aavriti 2014(formerly Aagomani), organised by EESA IIT Bombay, the qualifier for RoboGames, USA World's Largest Robot Competition (Guinness Book of Records).
- Qualified for the award of the DST Inspire Scholarship a scholarship awarded by the Department of Science and Technology, Government of India, to students in the top 1 percent in Class XII Board Examinations conducted by CISCE.
- Received the Winner's medal in 9th standard for the best essay in the 9th standard versus 10th standard English Essay Competition held in 2008 in St. Xavier's Collegiate School, Kolkata.

REFERENCES Dr. Asit Kr. Das, Associate Professor, Dept. of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, akdas@cs.iiests.ac.in

> Dr. Biplab Kr. Sikdar, Head of the Department, Dept. of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, biplab@cs.iiests.ac.in

> **Dr. Sushmita Ruj**, Assistant Professor, Cryptology Research Group, Cryptology and Security Research Unit, Computer and System Sciences Division, Room No 921, ASU, S.N. Bose Bhavan, Indian Statistical Institute, Kolkata, sush@isical.ac.in

Ms. Sukla Nag, IT Project Manager, Department of Computer Science and Engineering, Indian Institute of Technology, Bombay, sukla80@yahoo.co.in